

What is Content? Where Will it Come From?

Eric Burger Deputy CTO, BEA Sytems

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Questions Addressed Today

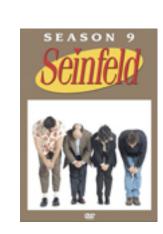
- What is Content, Physically?
- Is Web 1.0 Web 2.0?
- What is a Service Provider to Do?



Content Is...









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Sony Ericsson





- Self-published academic papers
- Information sharing (home pages, file sharing)
- Dynamic content (Web applications)
- Popular press forgot roots of web
 - Focus on mass market media as major web application
 - Self-bias?

The Web has always been about User Generated Content





Web 2.0 "Classic"

- Opportunity to share user generated content (UGC)
 - MySpace
 - Flikr
 - LinkedIn
 - FaceBook
 - Yelp
 - Amazon (ratings)
 - Google (ranking)
- Wait! Original Web:
 - Document sharing!



Web 2.0: User Generated Applications

- Rich environment
- High interaction
- User-directed presentation
- User-integrated applications (mash-up)
- User-generated applications
 - Applets
 - Widgets



How Web 1.0 and 2.0 Applications Differ

• Web 1.0

- Expert programmers: Java, Python, Perl, C++, etc.
- ► J2EE, Containers, POJOs, RubyOnRails, etc.
- Required ownership of application server or application server host

• Web 2.0

- End user creates applications
- Final application composition occurs at end user device or proxy
- Tools and techniques to make it easy enough for
 - Joe Sixpack to create own iGoogle page
 - Jane Semicompetent to create widgets





Web 2.0 Matters

- Purist perspective: embodies original view of the Web
 - Users generating content (current hoopla in popular press)
 - Users generating applications (current hoopla in enterprises)
- UGC (user generated content)
 - Mechanism for collaboration
 - Add communications and get really cool collaboration, business processes, businesses
- UGA (user generated applications)
 - Ecosystem of applications
 - Realistic way to address long-tail of application space





Production Qualities

- Home movies
- Studio movies
- Where do these fall?
 - Star Wreck: In the Perkinning
 - Ionelygirl15
 - A Vision of Students Today





Bandwidth Matters

- Low Bandwidth
 - Blog
 - Wiki
- Rogue/Hack

- High bandwidth
 - Meatrix
 - YouTube
- Second life



Providing new services to increase ARPU

Serving new customer segments and markets

Enabling faster deployment of new services





Providing new multimedia services that blend features

Reducing cost to deploy new services



What a Network Operator Has

A network

- Lots of connectivity
- Central nodes
- Management facilities
- Trust relationship with users
 - Subscribers
 - Enterprises
 - Application Service Providers
- Billing relationships and capabilities





All About Applications

What the Network Operator Needs

Things that get people to use the network





- Promise of stimulus / markup design model
 - Premise of IMS
- So easy to create applications, can explore solution space
- So easy to scale, can deploy if hit the big one
- Enables both focused market research and shot-gun approach
- Providers would be able to reach long-tail of market



Classic Approach for Applications

- Network operator buys and deploys an application
- Traditionally, from network equipment provider
- More recently, from network software ISV
- Even more recently, written by operator
- This is why we have the IMS
 - Application development cycle reduced from 18 months to 12 weeks

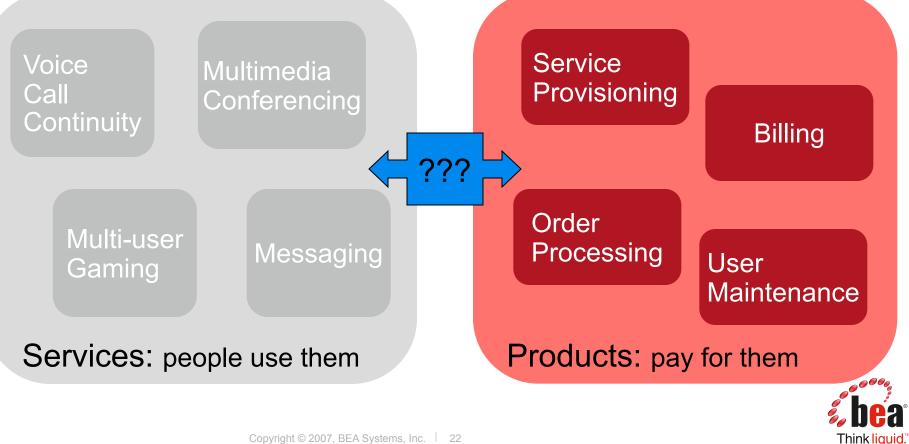






Product Deployment Problem

- IMS addresses service creation
- Still have 2-year product delivery times!



V's / NEP's cannot

Think <mark>liquid</mark>

Service Providers / ISV's / NEP's cannot address long-tail

- Almost by definition, SP's are mass-market organizations
- Well-run organizations should focus on corporate focus (mass market)
- No killer application on the horizon
- Promise of IMS was to make it easy to explore solution space to discover killer application





The Users of the Network Create Applications

- Many may look like (or become) companies in the end
- Many will be companies
- Many will be enterprises: SOX, HIPPA, BASEL II



- What if we let ANYONE create applications?
 - ► What do we need to have to enable this?



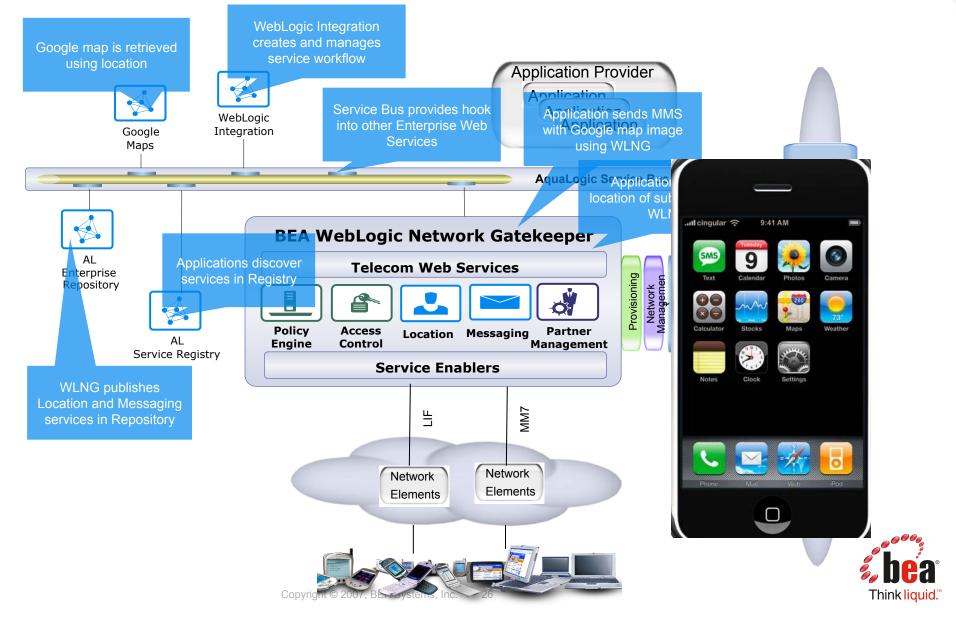


User-Generated Applications are Not Trusted

- Web 2.0 is not only about
 - Service providers (self-trust) building their own applications
 - Although it greatly helps development (0.5 day versus 9 months)
 - Although it greatly helps development process (collaboration)
 - Integration of silo applications into OSS/BSS (self-trust)
 - Although SOA helps greatly here
 - Trusted ISV's building semi-custom applications for service providers
 - Although it greatly helps development
- Web 2.0 is about
 - Enterprise customers (only contractually trusted) having control of their applications and data
 - Users (not trusted at all) able to create their own applications



Service Example: Rich Services





In Second Life, on the Island of Italian Operator, Avatar finds virtual phone (Alice First Life Communicator) and set up anonymous voice call (time limited) to real Mobile/Fixed number or send SMS





Summary

Web 2.0 is about UGC and UGA

CSP's cannot continue with "business as usual"

CSP's and ISV's cannot structurally address market

Opening network for new multimedia applications

Killer application is the environment





Thank You

Eric Burger eburger@bea.com

http://www.standardstrack.com

